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ASSIGNMENT BOOKLET 2A

SCN2285 Science 24
Module 2: Section 1 Assignment and Section 2 Assignment

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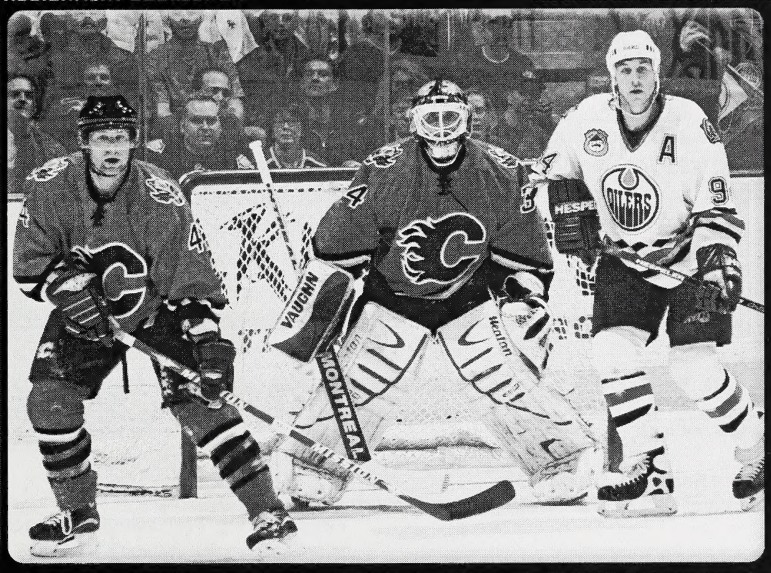

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SCIENCE 24

MODULE 2 ■ ASSIGNMENT BOOKLET 2A

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Learning Technologies Branch

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Summary

	Total Possible Marks	Your Mark
Section 3 Assignment	23	
Section 4 Assignment	29	
	52	

Teacher's Comments

Science 24
Module 2: Energy Transformations
Assignment Booklet 2A
Section 3 Assignment and Section 4 Assignment
Learning Technologies Branch
ISBN 0-7741-2573-X

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ASSIGNMENT BOOKLET 2A
SCIENCE 24: MODULE 2
SECTION 1 ASSIGNMENT AND SECTION 2 ASSIGNMENT

This Assignment Booklet is worth 52 marks out of the total 110 marks for the assignments in Module 2. The value of each assignment and each question is stated in the left margin.

Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

Section 1 Assignment: Energy Conversions

(23)

For questions 1 to 4, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

(1) _____ 1. A car moving at a constant speed up a ramp

A. gains potential energy
B. loses potential energy
C. gains kinetic energy
D. loses kinetic energy

(1) _____ 2. A book falling from a tabletop

A. gains both potential energy and kinetic energy
B. loses both potential energy and kinetic energy
C. gains potential energy and loses kinetic energy
D. loses potential energy and gains kinetic energy

(1) _____ 3. Carlota's brother, Ramon, is swinging back and forth on a swing. Which of the following statements is correct?

A. At the bottom of his swing, Ramon's potential energy is a maximum and his kinetic energy is zero.

B. At the top of his swing, Ramon's potential energy is a maximum and his kinetic energy is zero.

C. At the bottom of his swing, Ramon's potential energy is a minimum and his kinetic energy is zero.

D. At the top of his swing, Ramon's potential energy is a minimum and his kinetic energy is zero.

(1) _____ 4. Think about the mousetrap car you built? Your car converted potential energy into kinetic energy. When is the potential energy of the trap zero?

A. when the spring is fully loaded
B. immediately after you release the car
C. when the spring has returned to its original, not-set position
D. immediately before you release the car

Return to page 13 of the Student Module Booklet and begin Lesson 2.

For questions 5 and 6, read each question carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1) _____ 5. Which of the following is an example of kinetic energy?

A. chemical energy
B. nuclear energy
C. radiant energy
D. gravitational energy

(1) _____ 6. Which of the following is not like the others?

A. nuclear energy
B. electric energy
C. sound energy
D. thermal energy

(3) 7. Three common sources of energy found in nature are _____,

_____, and _____.

Return to page 18 of the Student Module Booklet and begin Lesson 3.

For questions 8 to 10, read each question carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 8. The system where energy is changed from one form to another is called

A. input energy
B. a converter
C. output energy
D. a transfer

(1) _____ 9. When concrete hardens, it gives off thermal energy. The concrete's temperature should

A. stay the same
B. decrease
C. increase
D. be impossible to determine

(1) _____ 10. Chemists call a chemical reaction that releases thermal energy exothermic. They call a chemical reaction that absorbs thermal energy endothermic. The reaction between citric acid and baking soda is

A. exothermic because the temperature of the mixture fell
B. exothermic because the temperature of the mixture rose
C. endothermic because the temperature of the mixture rose
D. endothermic because the temperature of the mixture fell

11. A cooking element on an electric stove glows red.

(1) a. What is the input energy?

_____

(1) b. What is the output energy?

_____

(1) c. What is the converter?

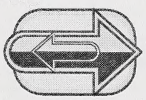
_____

(2) 12. Trace the energy conversions involved when a cat hits a small bell with its paw.

_____

_____

_____



Return to page 26 of the Student Module Booklet and begin Lesson 4.

Read question 13 carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 13. The Law of Conservation of Energy states that

A. input energy equals output energy
B. input energy exceeds output energy
C. input energy is less than output energy
D. input energy is not equal to output energy

(2) 14. Jacki's friend claims that future improvements in engine design will allow vehicles to travel any distance engineers want on just 1 L of gasoline. Is Jacki's friend correct? Why or why not?

_____

_____

_____

Return to page 29 of the Student Module Booklet and begin Lesson 5.

Read question 15 carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1) _____ 15. According to the Law of Conservation of Energy, which of the following is correct?

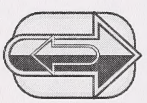
A. input energy = waste energy
B. input energy = output energy – waste energy
C. input energy = output energy + waste energy
D. input energy = useful output energy + waste energy

(2) 16. For an electric toothbrush, is input energy equal to useful output energy? Explain your answer.

_____

_____

_____



Return to page 31 of the Student Module Booklet and begin the Section 1 Review.

29

Section 2 Assignment: Electric Energy at Home

For questions 1 and 2, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

(1) _____ 1. An electric current is generated when a coil of wire passes through a magnetic field. A device for detecting this current is a

A. galvanometer
B. calorimeter
C. generator
D. turbine

(1) _____ 2. Which of the following would **not** produce more electricity when a magnet is moved back and forth through a coil of wire?

A. adding more coils
B. using a stronger magnet
C. moving the magnet faster
D. using longer wire

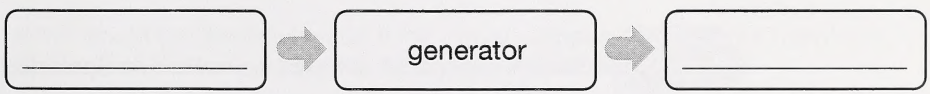
(2) 3. Moving a magnet through a coil of wire converts _____ energy into _____ energy.

(2) 4. A toy electric motor can be used to generate electricity. If this is the case, what two components must a toy electric motor contain?

_____

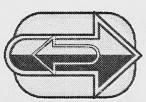
_____

(2) 5. a. Complete the following.



(1) b. Name the converter in the above system.

_____



Return to page 43 of the Student Module Booklet and begin Lesson 2.

For questions 6 to 9, read each question carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1)

_____ 6. What is the main resource used to generate electricity in Alberta?

A. coal
B. water
C. natural gas
D. nuclear energy

(1)

_____ 7. Which of the following is the primary difference between generating electricity in a coal-fired plant compared to a nuclear plant?

A. A nuclear plant uses thermal energy.
B. A coal-fired plant uses thermal energy.
C. A nuclear plant uses chemical energy.
D. A coal-fired plant uses chemical energy.

(1)

_____ 8. The power that comes to your home is a 60-cycle-per-second alternating current. Who is credited with the idea of alternating current and its transmission?

A. Alexander Graham Bell
B. Benjamin Franklin
C. Nicola Tesla
D. James Joule

(1)

_____ 9. Approximately what percent of the power generated is lost when it is transmitted from the power plant to your home?

A. 10%
B. 40%
C. 60%
D. 90%

Return to page 52 of the Student Module Booklet and begin Lesson 3.

For questions 10 and 11, read each question carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1)

_____ 10. How much energy does a 100-W light bulb use in 10 s?

A. 10 J
B. 100 J
C. 1000 J
D. 10 000 J

(1) _____ 11. A hair dryer is rated at 1500 W. In one year it was used for 100 h. How much energy did it use in kilowatt hours?

A. 1.5 kW•h
B. 15 kW•h
C. 150 kW•h
D. 1500 kW•h

(2) 12. A generator produces 60 000 J of electric energy every minute. How many watts does it produce? **Show your work.**

13. An old refrigerator is rated at 500 W.

(3) a. How many kilowatt hours of electric energy would this refrigerator use in 30 days? Assume the refrigerator is running 12 h per day. **Show your work.**

(2) b. What would the 30-day cost be if the power company charged 13.1¢/KW•h? **Show your work, and express your answer in dollars.**

Return to page 58 of the Student Module Booklet and begin Lesson 4.

Read question 14 carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1)

_____ 14. A 25-W fluorescent bulb emits the same amount of light as a 100-W incandescent bulb. Therefore, the fluorescent bulb is about

A. one-quarter as efficient
B. one-half as efficient
C. twice as efficient
D. four times as efficient

(3)

15. A vacuum uses input energy of 200 000 J to clean a carpet. If 140 000 J of output energy is waste energy, what is the efficiency of the vacuum? **Show your work.**

(3)

16. List **three** things you can do in your bedroom to reduce the use of electricity and save money on the utility bill.

_____

_____

_____

_____

_____

_____

Submit your completed Assignment Booklet 2A to your teacher for assessment.
Then return to page 62 of the Student Module Booklet and begin the Section 2 Review.

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ASSIGNMENT BOOKLET 2B

SCN2285 Science 24
Module 2: Section 3 Assignment and Section 4 Assignment

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SCIENCE 24

MODULE 2 ■ ASSIGNMENT BOOKLET 2B

2B ■ ASSIGNMENT BOOKLET 2B

SSIGNMENT BOOKLET 2B ■ ASSIGNMENT BOOKLET 2B ■ ASSIGNMENT BOOKLET 2B ■ ASSIGNMENT BOOKLET 2B ■

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Summary

	Total Possible Marks	Your Mark
Section 3 Assignment	25	
Section 4 Assignment	33	
	58	

Teacher's Comments

Science 24
Module 2: Energy Transformations
Assignment Booklet 2B
Section 3 Assignment and Section 4 Assignment
Learning Technologies Branch
ISBN 0-7741-2574-8

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ASSIGNMENT BOOKLET 2B
SCIENCE 24: MODULE 2
SECTION 3 ASSIGNMENT AND SECTION 4 ASSIGNMENT

This Assignment Booklet is worth 58 marks out of the total 110 marks for the assignments in Module 2. The value of each assignment and each question is stated in the left margin.

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Section 3 Assignment: Energy for Life

(25)

For questions 1 and 2, read each question carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1) _____ 1. Which of the following is **not** an ingredient for photosynthesis?

A. oxygen
B. carbon dioxide
C. light energy
D. water

(1) _____ 2. In Investigation 7-A (on pages 120 and 121 of the textbook), which substance slowed down the rate of cellular respiration?

A. water
B. fertilizer
C. sugar
D. vinegar

(1) 3. Cellular respiration occurs in the _____ of the cell.

(1) 4. The process opposite to cellular respiration is _____.

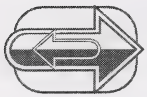
(2) 5. Explain how an owl captures energy from the Sun when it eats a mouse.

_____

_____

_____

_____



Return to page 73 of the Student Module Booklet and begin Lesson 2.

For questions 6 to 8, read each question carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 6. The maintaining of your body in a steady state is called

A. metabolism
B. homeostasis
C. cellular respiration
D. mitosis

(1) _____ 7. A strategy your body has for maintaining its temperature despite the chill of a cold day is

A. perspiring
B. shivering
C. distributing more blood to the limbs from the core
D. dilating blood vessels near the skin's surface

(1) _____ 8. When a person engages in vigorous exercise, his or her metabolism

A. stays the same
B. decreases
C. increases
D. is impossible to say, depending on the person

Return to page 75 of the Student Module Booklet and begin Lesson 3.

Read question 9 carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 9. When a person consumes less food than is required to meet body needs, glycogen is converted into

A. protein
B. fat
C. starch
D. glucose

(2) 10. Your body needs fat for good health; but dietitians recommend that to reduce the risk of heart disease, you should replace _____ fats with _____ fats.

(1) 11. According to the Atwater scale, 1 g of carbohydrates, 1 g of fat, and 1 g of protein contains about _____ kcal altogether.

(2) 12. Snack foods contain energy and your body needs energy for growth and maintenance. Why might dietitians recommend people limit their intake of snack foods?

_____

_____

_____

(1) 13. What is a bomb calorimeter?

_____

_____

(2) 14. Name four sources of dietary carbohydrates.

_____

_____

_____

Return to page 82 of the Student Module Booklet and begin Lesson 4.

Read question 15 carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 15. A city mail carrier resigns and trains as an office receptionist. This person's metabolism is likely to

A. increase
B. decrease
C. remain the same
D. change, but impossible to say how

(2) 16. List at least **two** factors that affect metabolism.

_____

_____

(2) 17. Describe at least **two** differences in nutrient and energy requirements between teenagers and senior citizens.

_____

_____

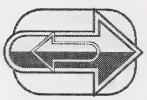
_____

(2) 18. The percentage of overweight people in Canada is higher today than 100 years ago. Why do you think this is?

_____

_____

_____



Return to page 84 of the Student Module Booklet and begin the Section 3 Review.

(33)

Section 4 Assignment: Fossil Fuels

For questions 1 to 3, read each question carefully. Decide which of the choices BEST answers the question. Place your answer in the blank space given.

(1) _____ 1. Which of the following is the hardest type of coal?

A. lignite
B. bituminous
C. sub-bituminous
D. anthracite

(1) _____ 2. Which of the following materials is absent when coal is formed?

A. carbon
B. oxygen
C. water
D. hydrogen

(1) _____ 3. Which of the following is needed to form coal?

A. water
B. glue
C. heat and pressure
D. heat and glue

(2) 4. How did the formation of natural gas and oil differ from the formation of coal?

_____

_____

_____

(3) 5. Describe the conditions in Alberta millions of years ago that led to the formation of fossil fuels.

_____

_____

_____

_____

_____

Return to page 90 of the Student Module Booklet and begin Lesson 2.

For questions 6 to 8, read each question carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 6. Drilling a hole in the ground and using a pump is a method of extracting

A. coal
B. natural gas
C. crude oil
D. bithumus sand

(1) _____ 7. The name of the process used to refine oil into different products is

A. filtration
B. distillation
C. vaporization
D. evaporation

(1) _____ 8. Natural gas is transported from Alberta to other parts of Canada mainly by

A. ship
B. truck
C. pipeline
D. train

(2) 9. State **two** reasons why open-pit mines are more common in western Canada than underground mines.

_____

_____

_____

10. Fill in the blanks using the terms from the following list:

- impermeable rock
- reservoir rock
- pump jack
- lift pump
- distillation
- natural gas
- shock waves
- gasoline
- naphtha
- crude oil

(2) a. _____ and _____ are lighter distillates than motor oil.

(3) b. A porous underground layer where _____ and _____ are located is called _____.

(1) c. A _____ is a type of reciprocating pump.

(1) d. _____ is a means of separating the components of crude oil.

Return to page 100 of the Student Module Booklet and begin Lesson 3.

For questions 11 to 13, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

(1) _____ 11. The elements present in propane are

A. water and carbon
B. carbon and hydrogen
C. oxygen and hydrogen
D. carbon and carbon dioxide

(1) _____ 12. Liquid water appears inside the bottom of a beaker with ice cubes in it when the beaker is held over a candle flame. This indicates that one product of the combustion of a candle is

A. soot
B. water vapour
C. thermal energy
D. carbon dioxide

(1) _____ 13. If hydrocarbon combustion is not complete, which of the following products forms?

A. oxygen
B. hydrogen
C. methane
D. carbon monoxide

(2) 14. How is the combustion of propane similar to cellular respiration? How are they different?

_____

_____

_____

_____

_____

Return to page 103 of the Student Module Booklet and begin Lesson 4.

Read question 15 carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1) _____ 15. A greenhouse gas released by the burning of fossil fuels is

A. propane
B. water vapour
C. sulfur dioxide
D. carbon dioxide

(1) 16. What is the goal of the Kyoto Protocol?

_____

_____

(2) 17. List **two** ways an oil spill can endanger marine life.

_____

_____

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_____

(4) 18. List **four** pieces of evidence that scientists give to support the claim of global climate change.

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Submit your completed Assignment Booklet 2B to your teacher for assessment.
Then return to page 108 of the Student Module Booklet and begin the Section 4 Review.

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